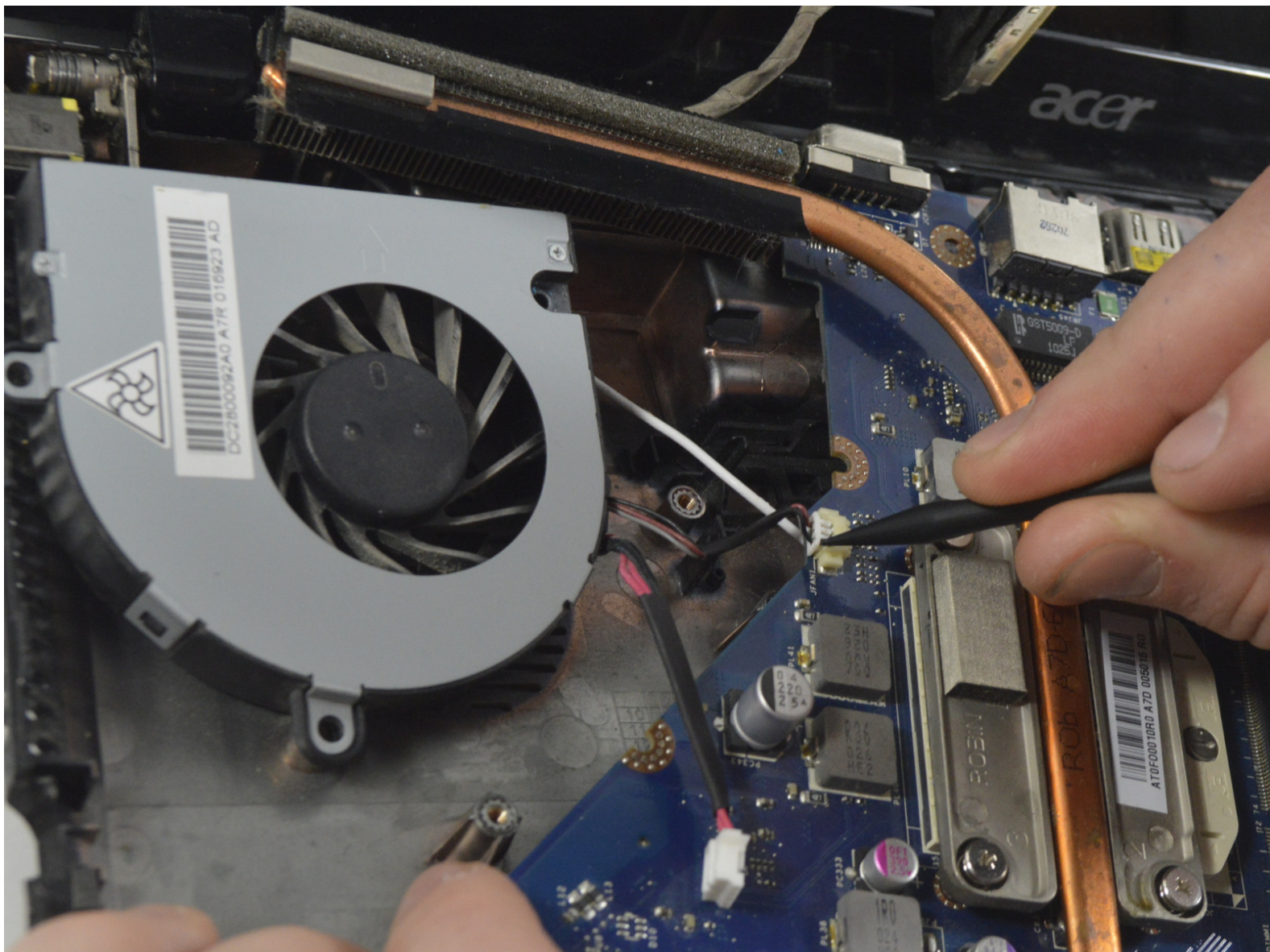




Acer Aspire 5742 Cooling Fan Replacement

This guide will allow you to replace the cooling fan in order to prevent overheating.

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INTRODUCTION

One of the most common issues with laptops overheating because the cooling fan is not running properly. Replacing this is moderately difficult due to the fact you have to remove so much to get to it and it will take 30 minutes to an hour. Before beginning the replacement wear an anti-static wrist wrap so you do not cause damage to the other components of the computer. Do not push on the keyboard clips or ZIF connectors too forcefully because they will break. When removing the keyboard do not fully lift it because the ribbon cable and the ZIF connector could be damaged. The same goes for the motherboard. If you try to pull this up it will damage the cable underneath it. If you have any further questions you can leave a comment and we will get back to you as quickly as possible!

TOOLS:

- [Heavy-Duty Spudger](#) (1)
 - [Phillips #0 Screwdriver](#) (1)
 - [Phillips #00 Screwdriver](#) (1)
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Step 1 — Motherboard



- ⚠ Use of an anti static wrist wrap is required to prevent damage to electronic devices.
- ⚠ Power down and unplug your device before starting this guide.
- Unscrew the two Phillips #0 screws.

Step 2



- Lift and remove the cover panel using a spudger.

Step 3



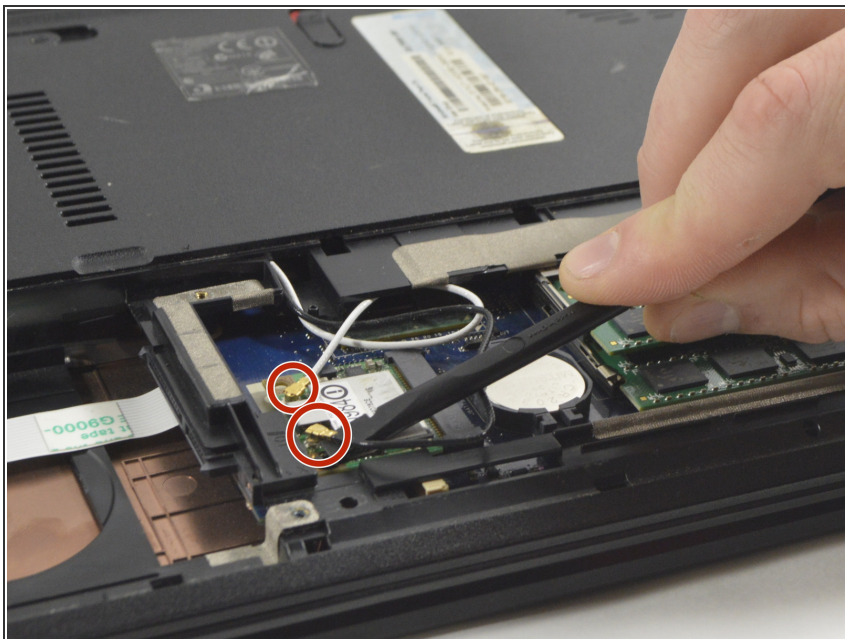
- Remove the single Phillips #0 screw holding the hard drive bracket.
- Push the hard drive to the left using your hand so the hard drive is against there is no longer a gap.
- Lift and remove the drive.

Step 4



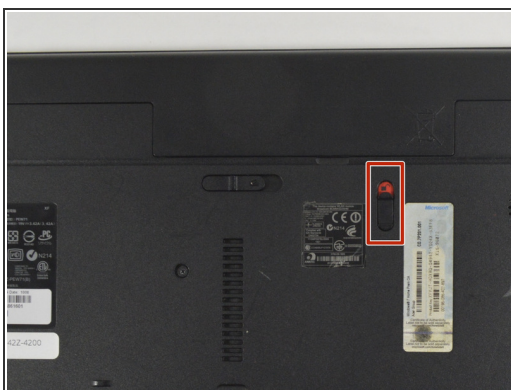
- Push the hard drive to the left using your hand so the hard drive is against there is no longer a gap.
- Lift and remove the drive.

Step 5



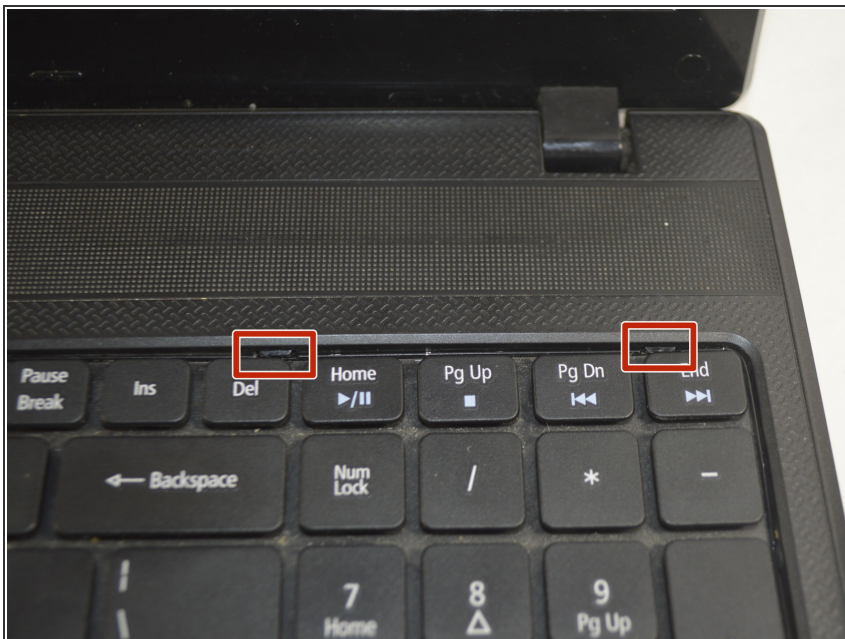
- Use a spudger to gently pry the black and white wires up and off of the wireless card.

Step 6



- Move the battery catch to the "unlocked" position.
- While pulling back the second battery lock, lift the battery.
- Lift and remove the battery.

Step 7



- Use a spudger to push in two of the clips directly above the top row of keyboard keys.

⚠ Do not press too forcefully on the clips because they may break.

Step 8




- Use the spudger to gently pry up the portion of the keyboard where the clips have been pushed in.

Step 9



- When a portion of the keyboard has been slightly lifted guide the spudger along the top and left/right sides in order to release it from all of the clips.

 Do NOT completely lift the keyboard up. There is still a cable connected to the back which will get damaged.

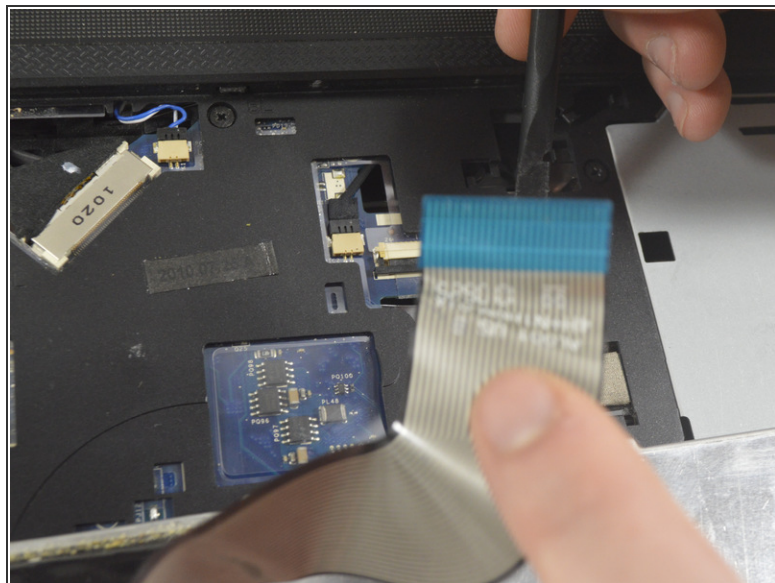
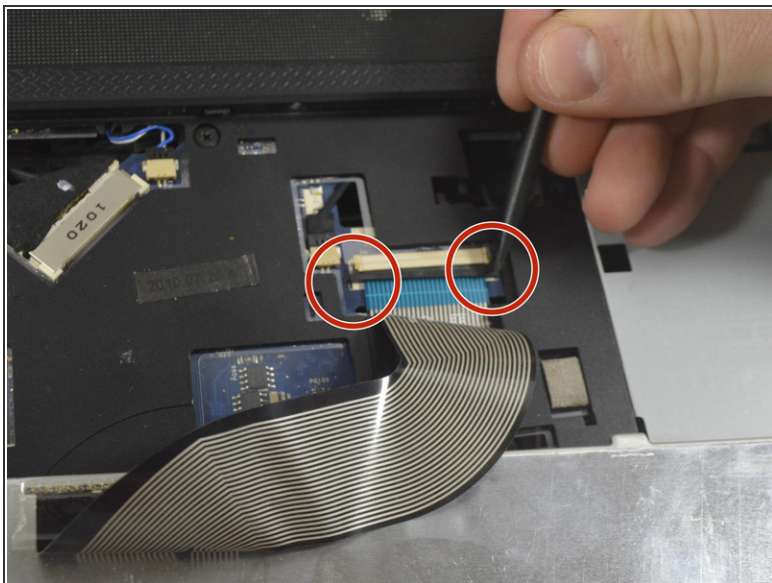
- Slowly lift the keyboard up at an angle.


Step 10



- Flip the keyboard towards yourself and lay it down above the mouse area.

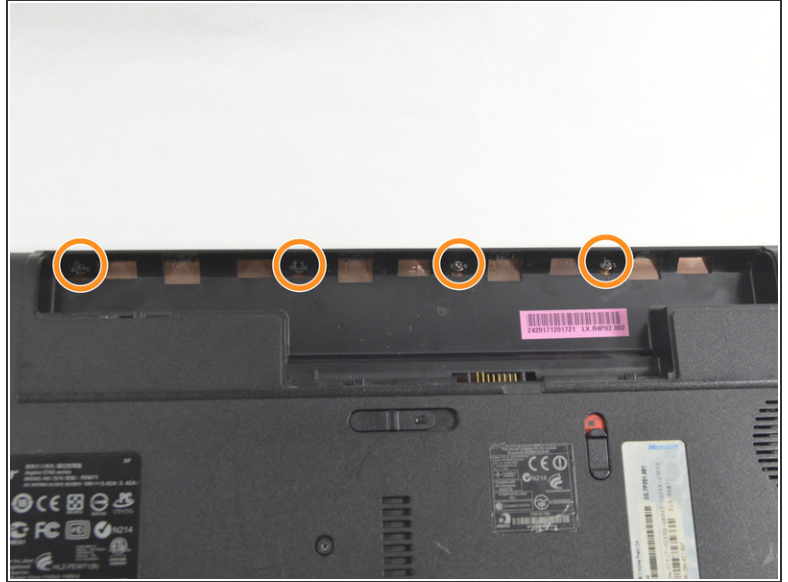
Step 11



 Do not use too much force when releasing the ZIF connector.

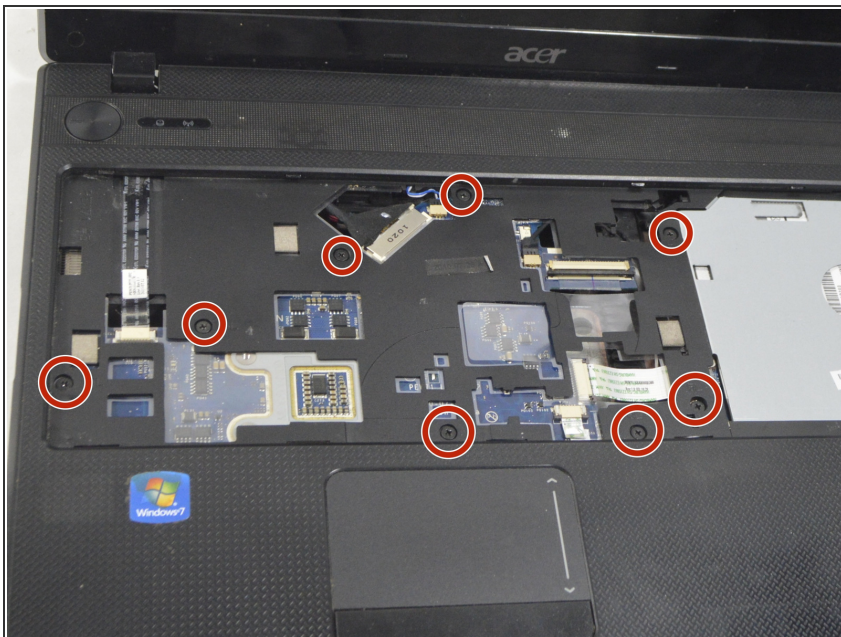
- Use a spudger to release the ZIF (zero insertion force) connector. Push each end of the black plastic towards the ribbon cable to release.
- Remove the ribbon cable by hand from the ZIF connector.
- Now the keyboard is completely free to be removed

Step 12



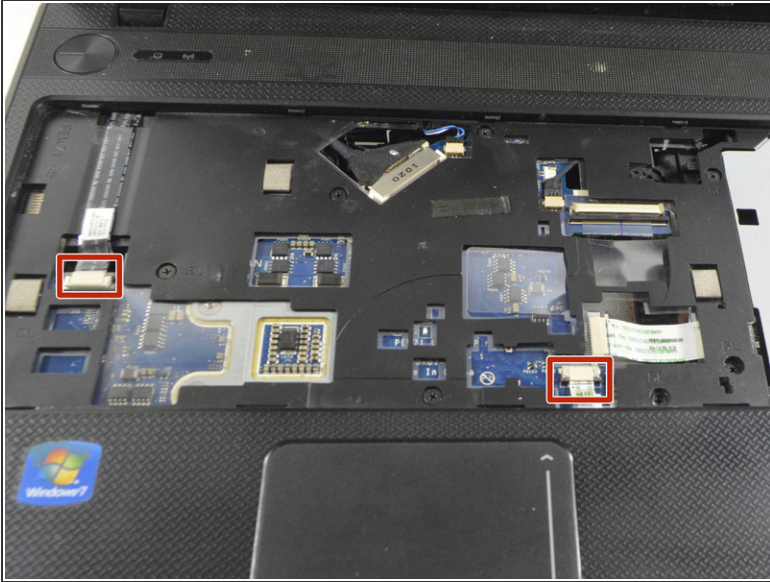
- Remove the 10 Phillips #0 screws on the bottom cover.
- Remove the 4 Phillips #00 screws from under the battery.

Step 13



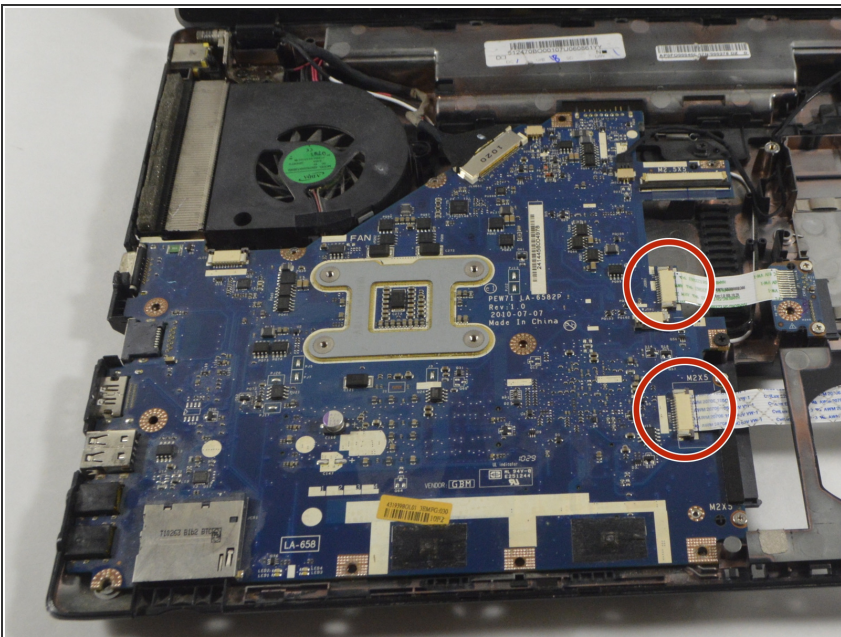
- Remove the 8 Phillips #0 screws from under the keyboard.

Step 14



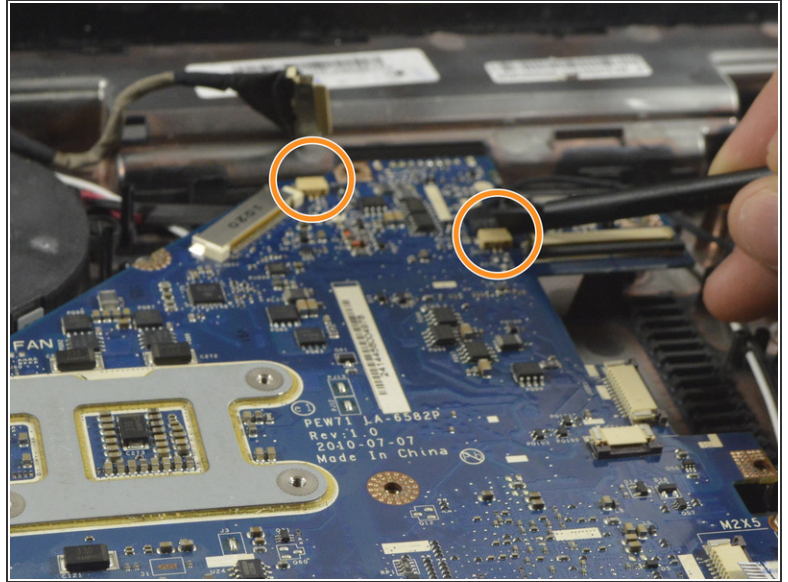
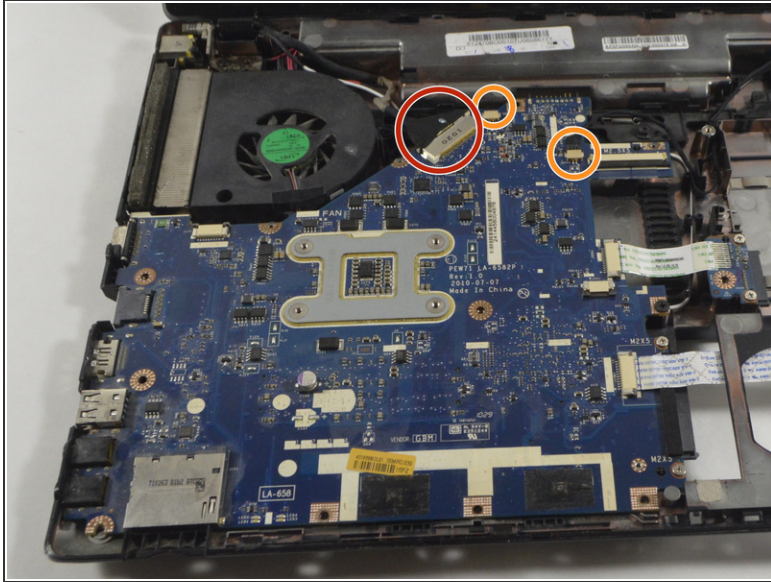
- Release the two ribbon cables from the ZIF connectors in the same fashion as in Step 11 with the black spudger.
- Once the mechanism is released you may remove the cable by hand.
- The plastic cover can now be easily lifted and removed from the rest of the laptop.

Step 15



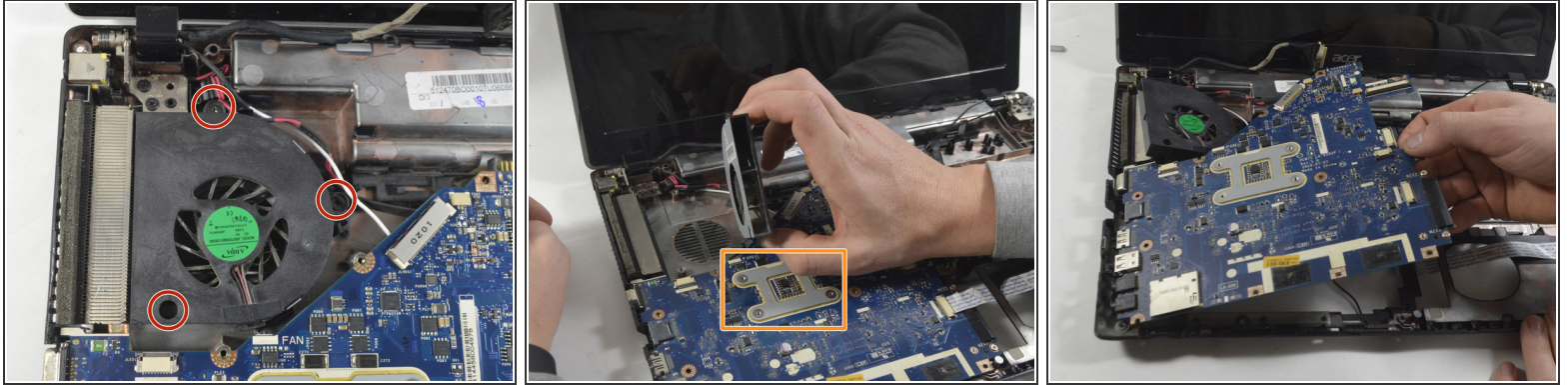
- Remove the two remaining ribbon cables as described in Step 11.

Step 16



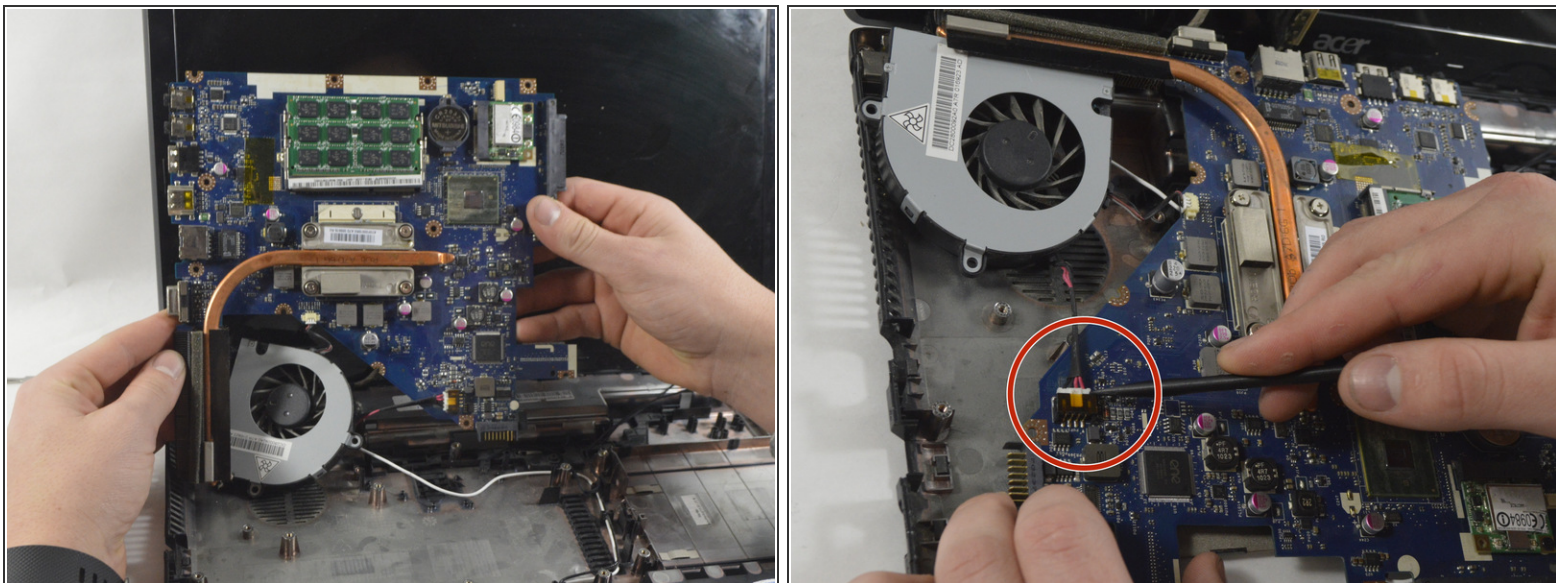
- Remove the display cable with the spudger by pushing each end of the cable out of the connector until it is loose enough to be pulled out by hand.
- In a similar fashion as with the display cable use the spudger to remove the two power cables from the motherboard.

Step 17



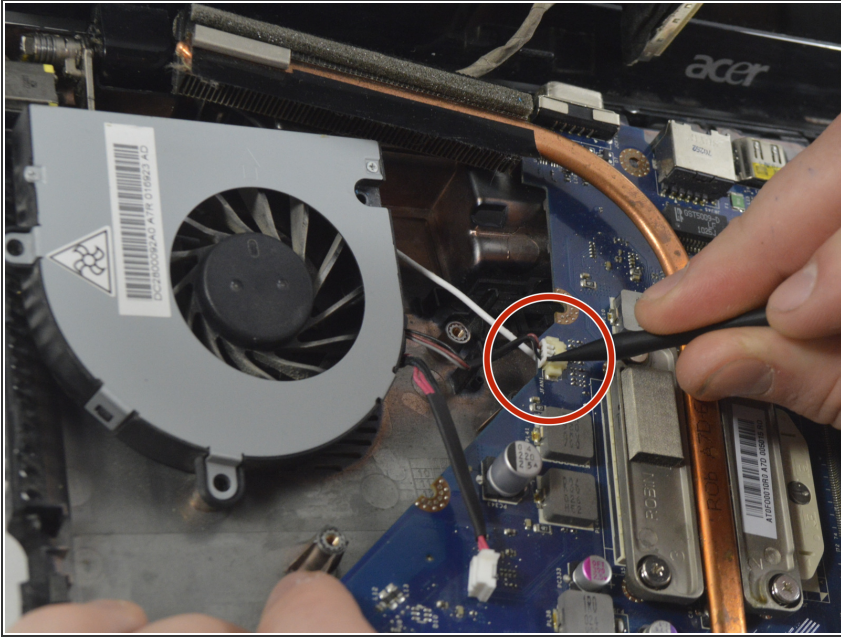
- Remove the 3 Phillips #0 screws from the fan bracket.
 - Lift the fan up and place it back down above the heatsink.
- ⚠ Do not fully remove the motherboard. As there is hidden cable on the underside that could be damaged.
- ⚠ The heatsink has a strip of adhesive on the underside securing it to the plastic body.
- The motherboard can be lifted from the side and then to the right to free the I/O port from the enclosure. Some force may be required to release the heatsink.

Step 18



- Rotate the motherboard to the right and lay it down so that the copper heatsink is facing up and parallel with the bottom of the monitor.
- In this position the last cable to the motherboard can be disconnected using the spudger to push each end out until loose enough to pull the cable completely out.
- The motherboard can now be completely removed from the laptop enclosure.

Step 19 — Cooling Fan Replacement



- Disconnect the fan power cable using the spudger to push the connector out.
- Remove the fan for replacement or cleaning.

To reassemble your device, follow these instructions in reverse order.

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